Aayush Sharma   160020090

Chemical Engineering   **B.Tech.**

Indian Institute of Technology Bombay   **Male**

   DOB: 21/12/1998

Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2020	0.00

Auxiliary Degree: Pursuing minor degree offered by the department of Electrical Engineering, IIT Bombay

INTERNSHIPS AND PROJECTS

DR REDDY'S LABORATORIES | PROCESS ANALYTICAL TECHNOLOGY (PAT) TEAM   [May'19-Jul'19]

*Received **Pre-Placement Offer (PPO)** for outstanding performance, strong work ethic, and exemplary results*

APPROACH	▪ Comprehended a detailed study of crystallization process, process variables & modern PAT tools involved ▪ Identified 3 broad applications of **machine learning and artificial intelligence** in crystallization process ▪ Compiled a thorough literature review of 15+ research papers based on real time **quantitative image analysis** ▪ Gained knowledge of principal component analysis, convolutional neural networks (CNNs), decision tree
RESULTS	▪ Proposed a CNN based algorithm to achieve **94%** accuracy for online **image segmentation** into **4** categories and identifying agglomeration occurring during the process and computing **Particle size distribution**

AU SMALL FINANCE BANK | DIGITAL MARKETING ANALYST   [Dec'18-Jan'19]

Received Letter Of Recommendation (LOR) from ..

APPROACH	▪ Analysed on-going SEM campaigns on 5+ media & marketing platforms to upsurge overall response rate ▪ Learnt structured analysis of content management and gained experience in agency management skills
RESULTS	▪ Created blueprint to drive content and defined content strategy for brand across all social media platforms ▪ Defined **KPIs** based on brand matrices and conceptualized digital campaigns using **multivariate A/B testing**

CASCADE CONTROLLER DESIGN | COURSE PROJECT | PROCESS CONTROL   [Mar'19-Apr'19]

*Simulated single-loop feedback control for packed bed in **SIMULINK**; Tuned using **Ziegler-Nichols** to get controller parameters*

▪ Compared P,PI,PID with cascade control system on **4** parameters involved for primary and **secondary disturbances**

▪ Result: Decreased the peak overshoot to 77% in the **offset free** output for the secondary disturbances in cascade controller

LEADERSHIP ROLES

CORE TEAM MEMBER | HOSTEL AND DEPARTMENT AFFAIRS | STUDENT ALUMNI RELATIONS CELL   [Apr'18-Mar'19]

Led team of 22 hostel & department alumni secretaries| Organised 20+ events with operational budget of INR 1 M

ENDEAVOURS	▪ Engineered workflow for **4 telephonic marathons** reaching out to 13k+ alumni **(300% YoY rise)** as Overall Lead ▪ Supervised 18 core talks spanning 12 days to portray holistic picture of diverse opportunities in core sector ▪ Organized career guidance to **350+** final year students through mock interview & GD facilitated by 60+ alumni
INITIATIVES	▪ Introduced workplace internships under Industrial Learning Program; procured **40** projects worth INR **0.9+M** ▪ Inaugurated additional **10 reunions over 2**; witnessed **1k+** Alumni engagement & record funding of INR **368M** ▪ Published **Institute Yearbook** for the batch of 2019 recounting **15000+ memoirs** penned by **2000+ students**

INSTITUTE STUDENT MENTOR & DEPARTMENT ACADEMIC MENTOR | STUDENT MENTOR PROGRAM   [Apr'19-Present]

Selected out of 300 applicants through rigorous interview process, peer reviews and all-round personality

▪ Guiding 12 freshmen,5 sophomore and 2 academically underperforming students in their academic & extracurricular pursuits

▪ Underwent 2 day training by TATA Institute of Social Sciences(TISS) on mentoring, rapport building and counselling

DEPARTMENT ALUMNI SECRETARY | CHEMICAL ENGINEERING ASSOCIATION   [Apr'17-Mar'18]

Strengthened and managed department alumni database while being the sole point of contact for chemical department

▪ Reintroduced Placement mentoring program to aid 50+ final year students for their placements; engaging 75+ alumni

▪ Organized **Student Industry Meet (SIM)** inviting 10+ companies to bridge academia industry gap; first ever in IIT Bombay

EXTRACURRICULAR ACTIVITIES

ACCOLADES	▪ Awarded Rajya Puraskar in scouting by the state secretary and chief commissioner of M.P. ▪ Awarded Gwalior Gaurav by the Gwalior Vikas Samiti for exemplary performance in JEE advanced	['13] ['16]
DATA SCIENCE	▪ Pursuing IBM Data Science Professional Certificate on coursera ▪ Key online courses: Machine Learning with python | Data analysis and visualization in python	['19] ['19]
SPORTS	▪ Best bowler of the Hostel General Championship (GC) and Freshmen Cricket Leauge ▪ Secured **1st position** in Cricmania: Institute cricket league organized by Cricket Club, IITB ▪ Undergone a yearlong training in **Cricket** under **National Sports Organization(NSO)**	['19,'17] ['17] ['16]
MISC.	▪ **Public speaking:** Addressed a crowd of 500+ people on Alumni Day celebration, attended '93 batch ▪ Raised **INR 5M** by assisting IITB-AA via **pledge forms** in Valedictory Function of Class of '18	['18] ['18]